

E-70N

Used Injection Needle Melting Device

USER'S MANUAL



◆ This manual provides instructions to ensure safe use of the syringe needle melting unit. Please read it thoroughly before operation.

◆ Please keep this manual near the syringe needle melting unit at all times so that it can be referred to whenever necessary.

INTRODUCTION

Thank you for purchasing our syringe needle melting unit. This user's manual describes how to operate it, and provides instructions which should be followed during operation.

Please keep this manual in a safe place, and refer to it before use and whenever necessary.

Major Features

☐ The unit is designed for use with various types of needles.

The unique fusing system can efficiently process 18G-27G type of needles.

☐ Manages 400 needles with a single charge.

It can handle 400 of 23G type of needles with only a single battery charge. The processing time per a syringe is at approximately 2 or 3 seconds. (Required 14 hours to recharge the emptied battery)

☐ Removes unpleasant odor.

The exclusive deodorant liquid is attached to this device, and it removes unpleasant odor when melting needles with blood etc.

☐ Compact designed and portable.

With the rechargeable battery, it can be easily carried and used at locations with no access to AC power supply.

☐ Secured against electromagnetic wave.

The outside of frame is made of Aluminum die-cast so that it can prevent from a leak of electromagnetic wave which gives a bad influence to patients and other medical devices.

Federal Communications Commission (FCC) Declaration of Conformity.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- ◆ Reorient or relocate the receiving antenna.
- ◆ Increase the separation between the equipment and receiver.
- ◆ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ◆ Consult the dealer or service representative for help.
- ◆ Softic Japan Co., Ltd. is not responsible for any radio or television interference caused by using other than recommended cables or connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible party:

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Safety Instructions

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE

IMPORTANT SAFEGUARDS

DANGER-To reduce the risk of electrocution:

1. Do not use while bathing.
2. Do not place or store product where it can fall or be pulled into a tub or sink.
3. Do not place in or drop into water or other liquid.
4. Do not reach for a product that has fallen into water.

WARNING-To reduce the risk of burns, electrocution, fire, or injury to persons.

1. Close supervision is necessary when this product is used by, on, or near children or invalids.
2. Use this product only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.
3. Never operate this product if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the product to a service center for examination and repair.
4. Never block the air openings of the product or place it on a soft surface, such as a bed or couch, where the air openings may be blocked. Keep the air opening free of lint, hair, and the like.
5. Never drop or insert any object into any opening or hose.
6. Do not use outdoors or operate where aerosol (spray) products are being used or where oxygen is being administered.

SAVE THESE INSTRUCTIONS

⚠ WARNING

Failure to heed "WARNING" signs during operation may result in serious injury or death.

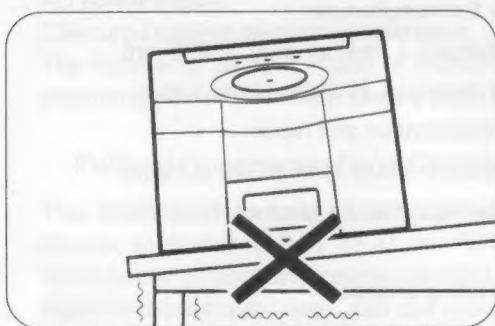
⚠ CAUTION

Failure to heed "CAUTION" signs during operation may result in serious injury.

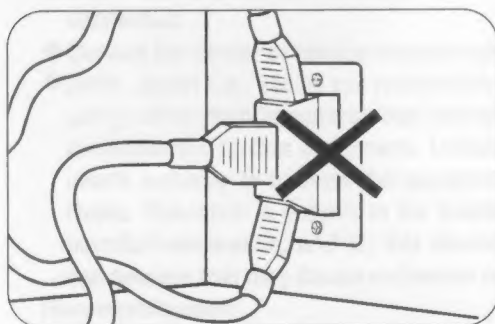
WARNING

Positioning and Power Supply

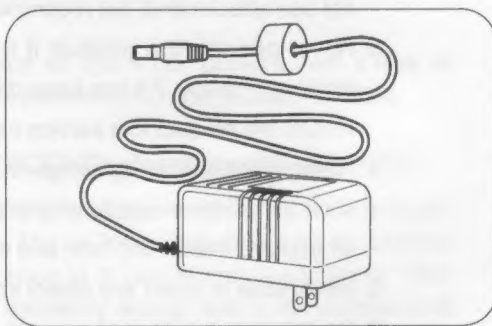
Do not put the unit in an unstable place. If it should fall, personal injury or damage to the unit may result.



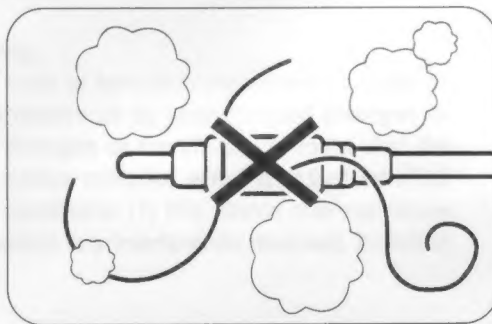
Do not connect the power cable to an adapter connecting numerous cables, and do not rework the cable. Do not put heavy objects on the power cable or heat or pull it. Fire or electric shock may result.



Use the charger attached to the unit. Be sure that the power supply voltage complies with the rating marked on the unit. Use of a wrong power supply voltage may result in fire, electric shock or destruction of the device.

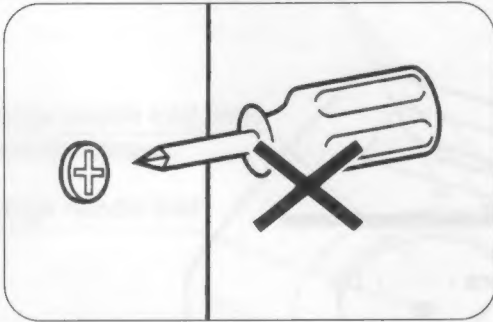


Make sure that there is no dust or foreign matter on the unit side charge adapter terminal and the DC output plug on the attached adapter. Fully insert the DC output plug into the unit side. Loose connection may result in fire or electric shock.

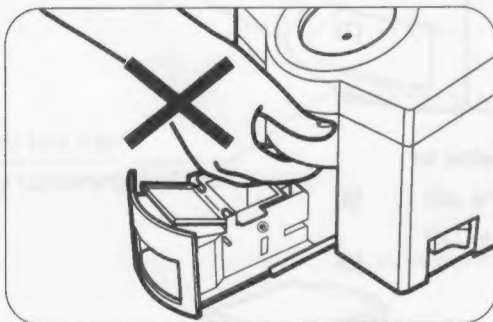


Device Use

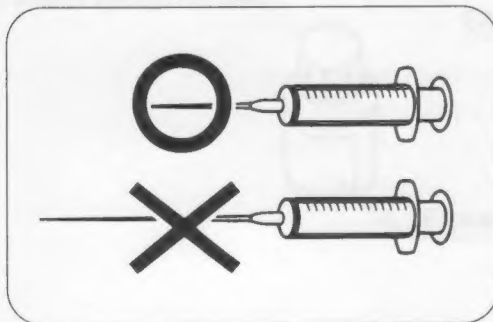
Do not remove, disassemble, or recondition the cover on the unit. Fire, electric shock, personal injury or malfunction may result.



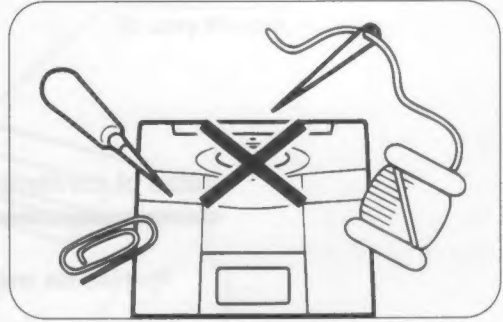
Do not put hands or foreign objects into the unit through the dust box tray inlet. Electric shock, injury or damage to the unit may result.



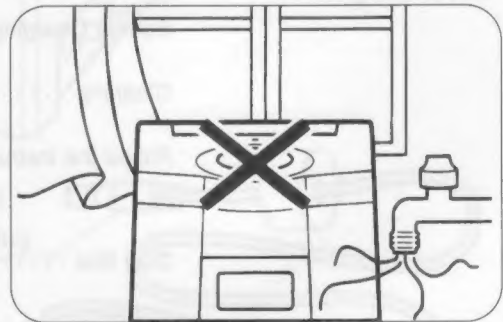
Be sure that syringe needles comply with the specifications. If too long a needle for the syringe needle inlet is entered, electronic devices in the vicinity may be affected by spark discharge.



Do not put anything other than syringe needles into the syringe needle inlet. If metals or flammable objects are entered, fire, damage, personal injury or malfunction may result. If foreign objects are entered by mistake, turn off the power switch and stop the unit.



When disposing of syringe needles, be sure that there is no flammable object near the unit, and that there is no leakage of combustible gas. Do not use the unit in a room where combustible gas may be produced as this will result in an explosion.



The unit should not be used if there is a possibility that a syringe contains liquid which can produce volatile toxic substances. Poisoning may result.



CAUTION

Read the instructions carefully before using the unit. Do not use the unit if you are not familiar with the instructions. Do not use the unit if you are not familiar with the instructions. Do not use the unit if you are not familiar with the instructions.

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Part Names and Functions

Battery check lamps

Indicate remaining battery power.

Handle

To carry the unit.

Syringe needle inlet plate

Supports syringes.

Syringe needle inlet

Charge adapter terminal

Connects to the DC output plug of the charge adapter.

Power switch

To turn power on/off

Dust box tray

Tray containing dust box

DC out put plug

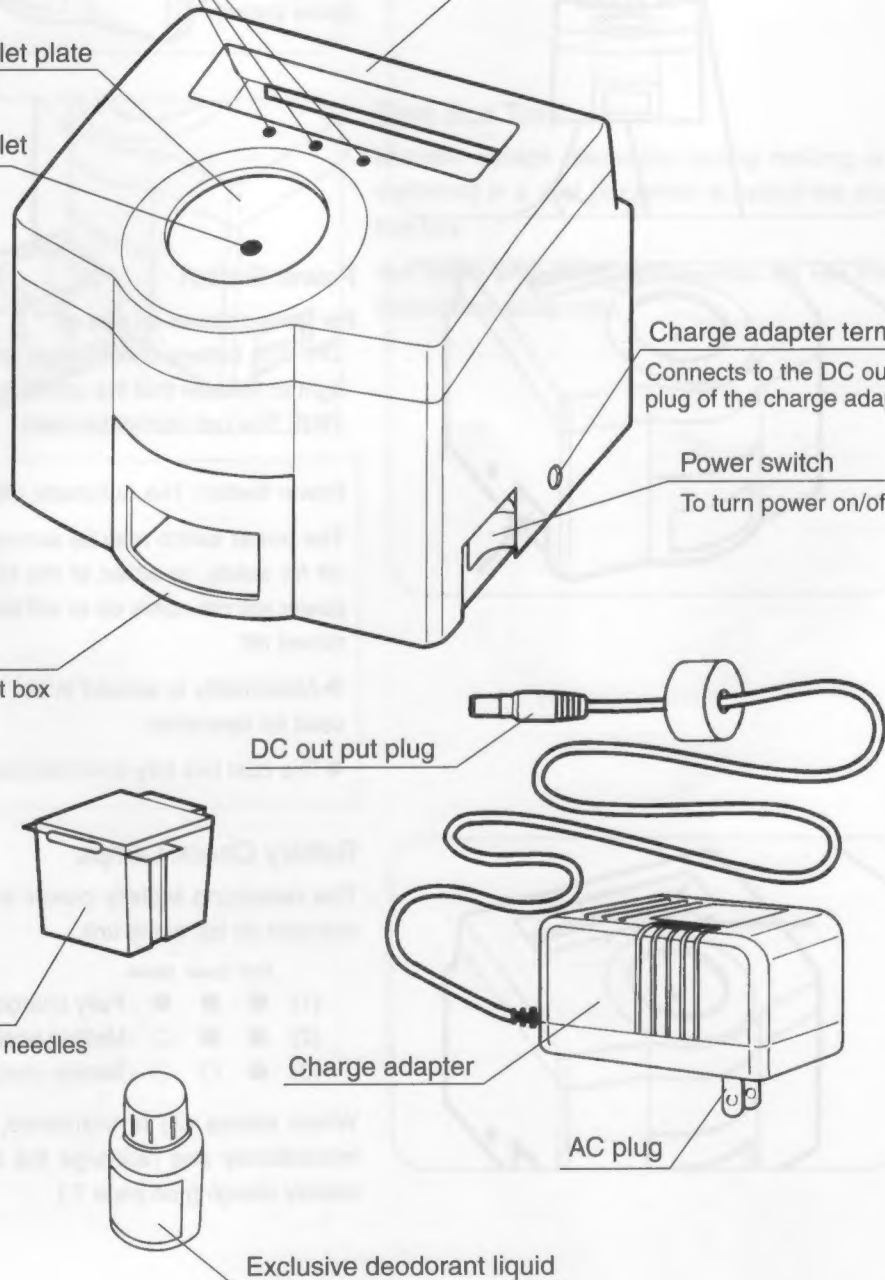
Dust box

For melted syringe needles

Charge adapter

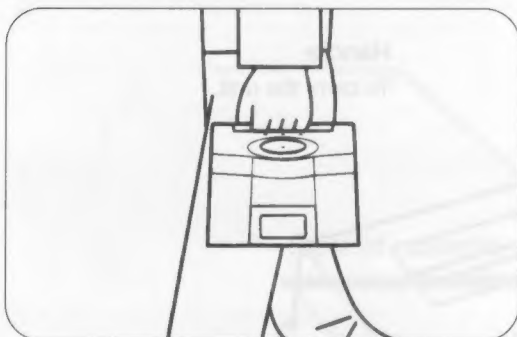
AC plug

Exclusive deodorant liquid



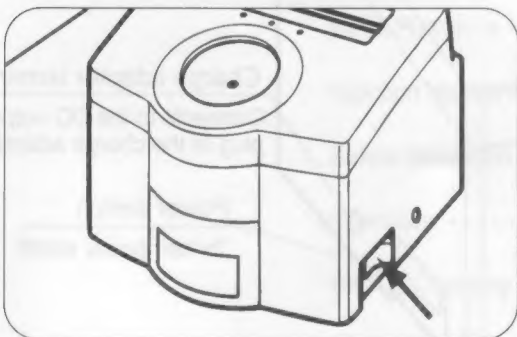
Basic Functions

Explanation of unit's basic functions



Handle

Hold the handle firmly when carrying the unit.
When putting the unit down, take care not to cause impact.



Power Switch

For turning power on and off.

ON: The battery check lamps on top of the unit light to indicate that the unit is ready for use.

OFF: The unit cannot be used.

Power Switch: The Automatic Off

The power switch may be automatically turned off for safety. In either of the following cases, power will not come on or will be automatically turned off:

- ◆ Abnormality is sensed in the electric current used for operation.
- ◆ The dust box tray is not set properly.

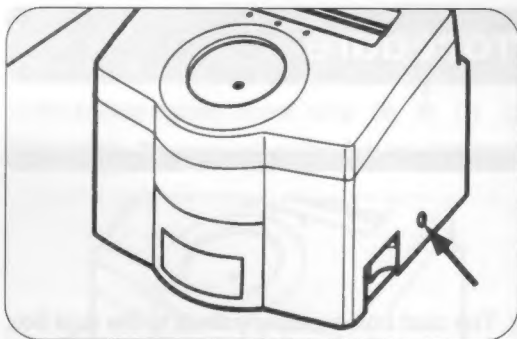


Battery Check Lamps

The remaining battery power is shown by the indicator on top of the unit.

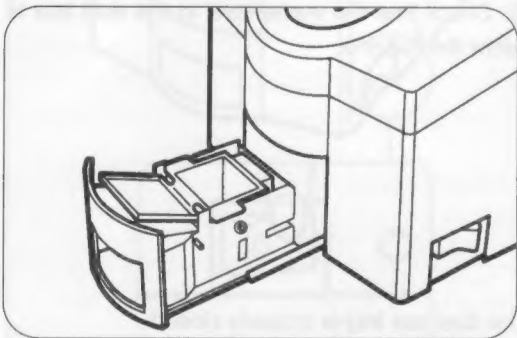
- | | Red | Green | Green | |
|-----|-----|-------|-------|------------------------------|
| (1) | ● | ● | ● | : Fully charged |
| (2) | ● | ● | ○ | : Melting possible |
| (3) | ● | ○ | ○ | : Battery charging necessary |

When status (3) is indicated, stop the unit immediately and recharge the batteries. (See battery charging on page 7.)



Charging Adapter Terminal

When charging the battery, connect the charge adapter (See battery charging on page 7.)



Dust Box Tray

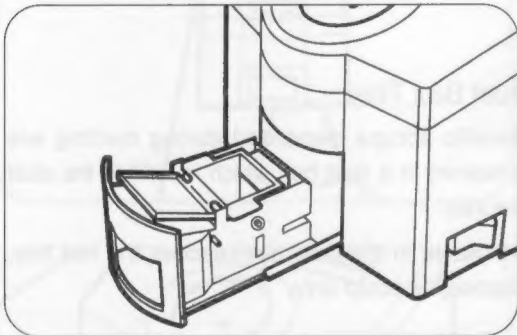
Metallic scraps discarded during melting are contained in a dust box which is held in the dust box tray.

◆ If waste in the dust box reaches the red line, dispose the scrap only.

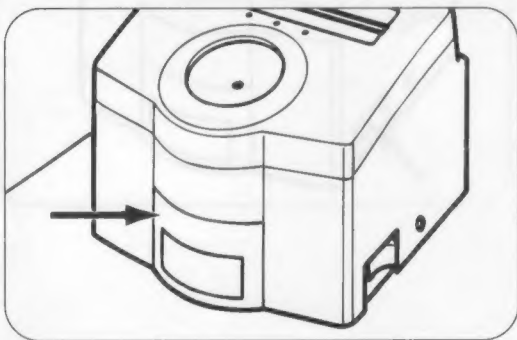
Operating Procedure

Before Operation

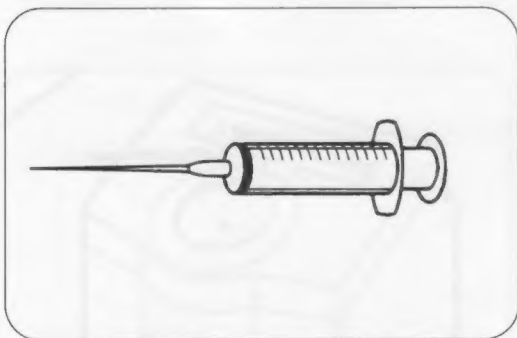
Before use, check the following:



- 1) The dust box is properly fixed to the dust box tray.
- 2) Check that the waste level in the dust box is below the red line.



The dust box tray is properly closed.

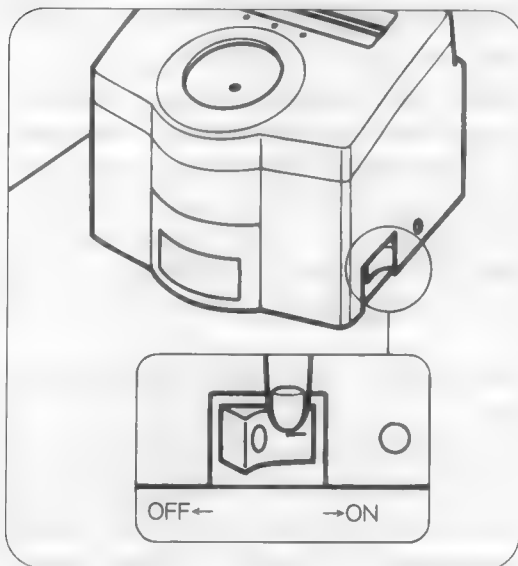


The thickness, length and shape of syringes and syringe needles comply with the specifications. (See specifications on page 10.)

⚠ WARNING Injection liquid and blood must be purged from syringe.

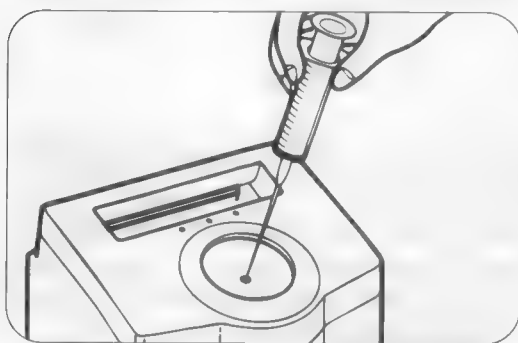
Operation

If the middle battery check lamp (● ● ○) goes out during melting, stop immediately and charge the battery. To carry out melting, follow the procedure below:

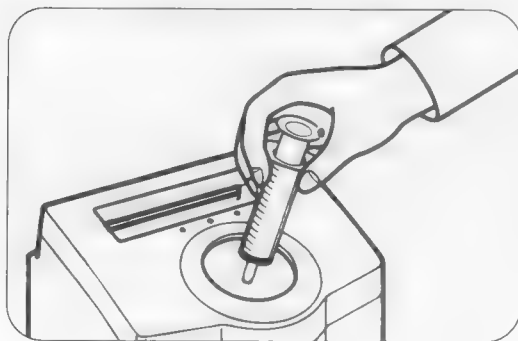


1) Turn on the power switch

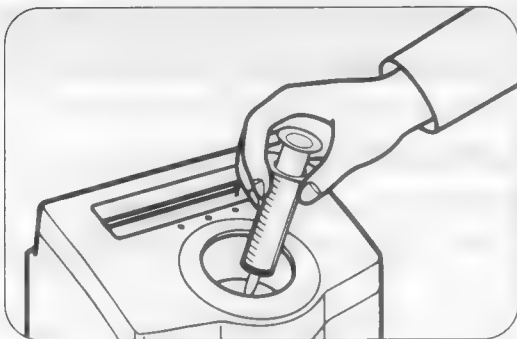
◆ Confirm that the battery check lights are on.



2) Hold the syringe fitted with a needle vertically above the unit, and feed it into the inlet slowly.



3) Ensure that the syringe blocks the syringe needle inlet hole completely.



4) Depress the syringe needle inlet plate slowly, with the syringe, until it stops.

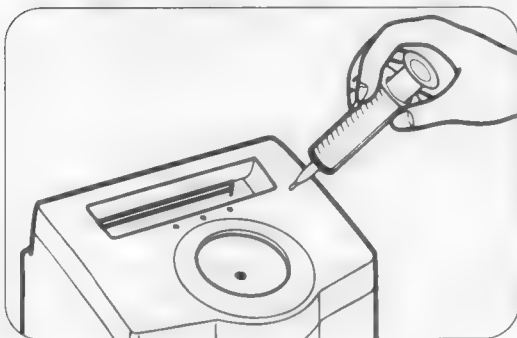
The needle is now being melted.

During melting the light of electrical discharge may be visible through the inlet plate.

⚠ CAUTION Do not release the syringe during melting, as this may result in burns or injury.

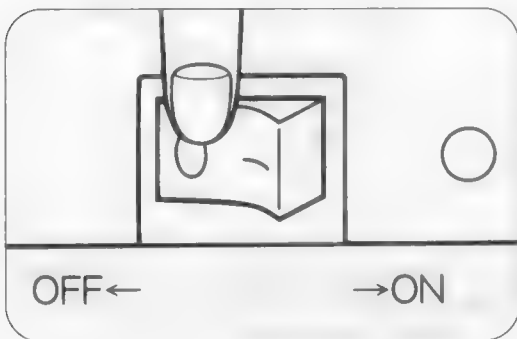
NOTE: Push the plate down slowly, with the syringe, for about three seconds until it stops. For a needle thicker than 23G, take more time (for example, about five seconds) when pushing the plate down.

Performing this operation in less time will not result in proper melting.



5) When melting is finished, withdraw the syringe slowly.


⚠ CAUTION Syringe needles are cut at a distance of several millimeters from their root. The roots of the needles will be heated to a high temperature. Do not touch as this will result in injury or burns.



6) After completion of melting, wait thirty seconds before switching off.

⚠ CAUTION Do not switch off at completion of melting. Gas and odors produced during melting will remain inside the unit. Their removal requires at least thirty seconds.

Battery Charging Method

If the middle battery check lamp goes out during melting, stop immediately and charge the battery. Failure to do this will result in needles being improperly melted (● ● ○).


During charging the left hand red light is lit to indicate charging in progress (● ○ ○).

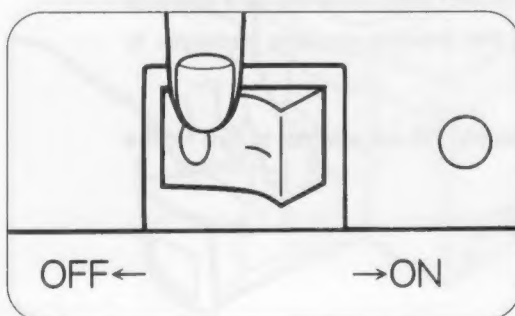
On completion of charging this light will go out (○ ○ ○).

Full charge time is approximately twelve hours.

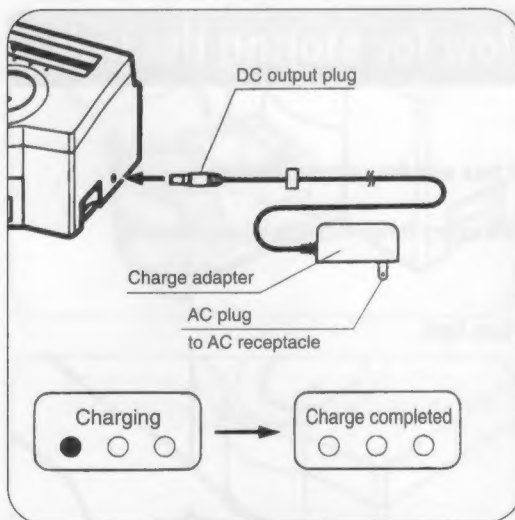
Full charge is recommended to have a longer battery life.

Battery Charging

The battery charging procedure is as follows:



1) Turn off the power switch on the melting unit.



2) Connect the DC output plug on the charge adapter to the charge adapter terminal on the unit.

Insert the AC plug into the AC plug receptacle.

The left hand red battery check lamp will light during charging (● ○ ○).

When the battery is fully charged, this lamp will go out (○ ○ ○).

NOTE: The operation of the unit is possible even during charging.

Cleaning

The enclosure surface, dust box tray, and other parts of this equipment will become dirty as this equipment is used for long. When they become dirty, clean them as shown below.

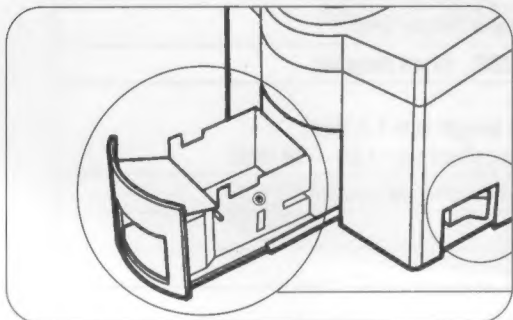
- 1) Turn the power switch off. Disconnect DC output plug of Charge adapter from Charge adapter terminal.
- 2) Wipe dirty parts lightly with gauze or soft cloth moistened with neutral detergent diluted with water or alcohol.
- 3) Moisten cloth lightly by hand. If the cloth is soaked with too much detergent or alcohol, the enclosure surface remains wet after cleaning and residual detergent or alcohol may penetrate into the product, causing damages to internal parts.
- 4) After wiping, leave it until it dries completely. Do not attempt to turn on the power immediately after wiping.
- 5) Never use thinner or organic solvent.

Follow the instructions below for storing the unit

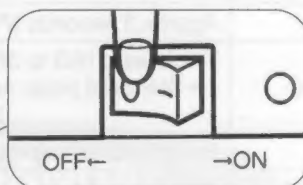
- 1) Pull out the dust box, then store the dust box and the unit separately.
- 2) Charge the battery for more than 12 hours every three months when the unit is not used for a long time.
- 3) Keep the unit in the place without direct sun light.

Dust box

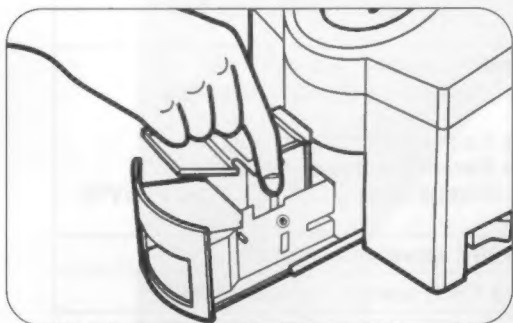
Before commencing melting, check that the waste level is below the red line in the dust box. If the red line has been reached, dispose the scrap only.



1) Turn off the power switch.



2) Pull out the dust box tray.

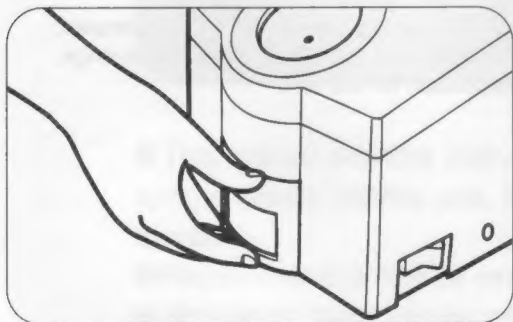
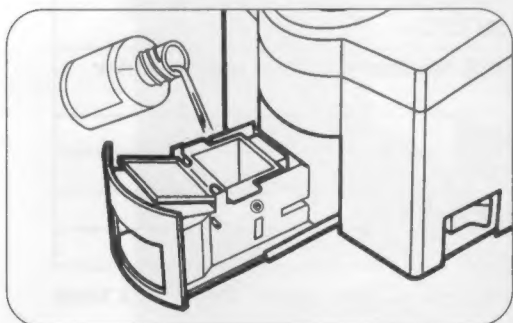


3) Dispose the scrap only.

⚠ WARNING After melting, waste and injection liquid will be present in the dust box. Such matter is very dangerous and should not be touched by hand under any circumstances.

NOTE: Ensure that the dust box lid is open properly.

◆ If the dust box is not set properly, the power switch cannot be turned on.



4) Ensure that the dust box tray is completely pushed in (until it stops).

NOTE: If the dust box tray is not set properly, the power switch cannot be turned on.

Specifications

Items	Specifications
▲ Indoor Use Only.	This equipment shall be used indoor only.
Operation time	Approx.3 seconds (For a 23G, 1inch needle)
Applicable Syringe needles	Thickness: 16G to 30G <ul style="list-style-type: none"> • Standard plate: needle length 0.5-1.5 inch Syringe diameter 0.26-1.18 inch
Power supply	Battery (charging depends on charge adapter)
Installation category	II
Pollution degree	2
Altitude	Up to 2000m (6560 feet)
Charge Adapter	AC 120V (+5.5%, -15.5%) 60Hz
Input	9V \equiv
Battery	<ul style="list-style-type: none"> • Type: 6V, 10Ah. Small seal lead battery with 250 tabs • Charge time: More than 7 hours (until the red battery check lamp goes out) • Battery life: about 1 year. (under normal conditions) • Manufacturer: Shin-kobe Electric Machinery Co.,Ltd., Type: HP 10-6 or Japan Storage Battery Co.,Ltd., Type: PE6V10 • Serviceman replace only.
Fuse	(F1)T 2A/125V; (F2)T 3A/125V, serviceman replace only
Dust Box	Replace at about 2000 23G 1inch needles (consumables)
Operating environment	<ul style="list-style-type: none"> • Temperature: 5°C -40°C * *35°C is a maximum temperature during battery charging. • Humidity: 20%-80% RH (at 25°C)
Lifespan	5 years or 300,000 23G 1inch needles, whichever may be earlier (excepting the battery)
Dimensions	7.87x7.75x6.69 inch (WxDxH)
Weight	Unit, 5kg; Charge-adapter, 0.6kg
Accessories	User's manual, Charge adapter, dust box
Term of warranty	1 (one) year

After about a 12 hour battery recharging period, the unit can melt approx. 400 of 23G 1inch syringe needles.

The following types of syringe with the above applicable syringe needles can be operated; normal syringe, and tuberculin syringe. Butterfly-winged syringe, blood collection syringe, dental syringe and other special syringes are not applicable for this unit.